FastTrak Schedule Report

Overview

Store Name: My Store
Depot Name: My Depot
Delivery Date: 07/05/2024
Vehicles: 5
Packages: 273
Standard Priority: 187
Express Priority: 86

Schedule Profile

Auto-Minimise (Y/N): N
Optimisation Profile: Eco
Time Window: 8 hours
Estimated Time Per Delivery: 3 minutes

Vehicles

#	Vehicle	Packages	Load Utilisation (kg)	Volume (m³)	Distance (mi)	Time (hrs)
1	VE01ABC	52	817/1000 (82%)	14.7/15.0 (98%)	63.6	5.77
2	VE02ABC	55	934/1000 (93%)	14.6/15.0 (97%)	58.2	5.66
3	VE03ABC	55	817/1000 (82%)	15.0/15.0 (100%)	79.0	6.68
4	VE04ABC	57	880/1000 (88%)	15.0/15.0 (100%)	71.0	6.39
5	VE05ABC	54	855/1000 (86%)	15.0/15.0 (100%)	78.4	6.60

Performance

Total

Packages: 273
Driving Time: 31.11 hours
Distance: 350.23 miles
Weight: 4303.00 kg
Volume: 74.17 m³

Average Per Vehicle

Packages: 54.60
Driving Time: 6.22 hours
Distance: 70.05 miles
Weight: 860.60 kg
Volume: 14.83 m³

Average Per Package

Packages: n/a
Driving Time: 0.11 hours
Distance: 1.28 miles
Weight: 15.76 kg
Volume: 0.27 m³

Efficiency Metrics

Higher efficiency scores indicate better performance. A utilisation score of 100 indicates that the vehicle is being used to its full capacity.

Time Efficiency (TE) = Number of Packages / Time (minutes) * 100
Distance Efficiency (DE) = Number of Packages / Distance (miles) * 100
Weight Utilisation (WU) = Total Weight (kg) / Load Capacity (kg) * 100
Volume Utilisation (VU) = Total Volume (m³) / Volume Capacity (m³) * 100

#	Vehicle	TE	DE	WU	VU
1	VE01ABC	15.01	81.81	81.70	97.81
2	VE02ABC	16.19	94.44	93.40	97.13
3	VE03ABC	13.72	69.65	81.70	99.85
4	VE04ABC	14.87	80.26	88.00	99.90
5	VE05ABC	13.63	68.84	85.50	99.76
Average		14.63	77.95	86.06	98.89

Algorithm Information

The algorithm configuration has been selected as:

Initialisation: KMeans
Optimisation: None

Network State

Vehicles available: 5
Vehicles used: 5
Packages pending: 953
Packages scheduled: 273
Total Time Window: 40 hours

Solution Statistics

Initialisation	Optimisation	Packages	Time (hours)	Distance (miles)	TE	DE	WU	VU
KMeans	**None**	**273**	**31.11**	**350.25**	**14.63**	**77.95**	**86.06**	**98.89**